

# Claims

- [c1] A system to facilitate the movement of electronic files includes:
- a file transfer services component configured to at least one of transmit and receive a file request, said file transfer services component configured to communicate with a centralized file management hub;
  - a file transformation component configured to at least one of reformat, validate and enrich file content using enterprise logic;
  - a centralized file management hub configured to communicate with a messaging infrastructure; and,
  - a messaging infrastructure component configured to facilitate workflow management of said files through said system.
- [c2] The system of claim 1, wherein said centralized file management hub further includes:
- a file tracking and monitoring component configured to provide end-to-end tracking of a file and role based multi layered tracking information of a file;
  - a parameter and configuration management component configured to provide a gateway to at least one of store

and retrieve configuration information; and,  
a file routing and workflow component configured to route a file through a network and provide routing information to file transfer nodes to facilitate at least one of routing and scheduling of a file transfer.

- [c3] The system of claim 1, wherein said centralized file management hub further includes a parameter and configuration management component, wherein said parameter and configuration management component includes configuration information which may include at least one of an enterprise's access control to said system, file transfer routing information, file retention information, and communication channel parameter information through a network.
- [c4] The system of claim 1 further including a manager interface configured to at least one of receive configuration information and display tracking information.
- [c5] The system of claim 1 further including a manager interface configured to at least one of receive configuration information and display tracking information, wherein said configuration information includes at least one of client authentication information, roles defined that indicate which activities a user is authorized to perform, file workflow configuration and what services will be re-

requested of each component, and wherein said tracking information includes a workflow task outcome.

- [c6] The system of claim 1, wherein said file transfer services component includes:
  - at least one file transfer agent communicating with said messaging infrastructure;
  - a file transfer application server communicating with said messaging infrastructure; and,
  - user interface communicating with said file transfer application server.
- [c7] The system of claim 1 further including a user interface, wherein said user interface is configured to access said system via at least one of an intranet and internet.
- [c8] The system of claim 1 further including a user interface, wherein said user interface communicates with a file transfer applications server.
- [c9] The system of claim 1, wherein said file transformation component is further configured to apply a transformation map to said file.
- [c10] The system of claim 1, wherein said file transformation component is further configured to apply a transformation map to said file wherein said transformation map includes at least one of inputs, outputs, and validation

rules.

[c11] The system of claim 1, wherein said file services component further includes at least one file transfer agent, wherein said at least one file transfer agent is further configured to notify said central file management hub of workflow events.

[c12] A method to facilitate the movement within a system of electronic files having file content, said method including;  
receiving a request for a file;  
transmitting said request to a messaging infrastructure;  
reformatting said file content;  
validating said file content;  
transforming said file content;  
defining a transformation map;  
applying said transformation map to said file; and,  
delivering said file.

[c13] The method of claim 12, wherein said receiving a request for a file includes receiving a request at a file transfer services component.

[c14] The method of claim 12, wherein said receiving step includes receiving a request via at least one of an intranet and an internet.

- [c15] The method of claim 12, wherein said receiving step includes receiving a request at a file transfer applications server.
- [c16] The method of claim 12, wherein said transforming step includes enriching said file content.
- [c17] The method of claim 12, wherein said reformatting step includes arranging data within a file in at least one of a format that is convenient to the client and a format that is a standard in the client's industry.
- [c18] The method of claim 12, wherein said validating step includes ensuring that the data includes syntactical integrity as received from the client.
- [c19] The method of claim 12, wherein said transforming step includes enriching said file content, wherein said enriching includes providing supplemental information in order for the data to be properly processed by the destination system.
- [c20] The method of claim 12, wherein at least one of said reformatting, validating and transforming steps are based upon enterprise logic.
- [c21] The method of claim 12, wherein at least one of said reformatting, validating and transforming steps occurs

within a file transformation server.

[c22] The method of claim 12, wherein at least one of said re-formatting, validating and transforming steps are based upon enterprise logic and use at least one of meta-data and business mapping rules to describe how enterprise logic is applied.

[c23] The method of claim 12, wherein at least one of said re-formatting, validating and transforming steps are based upon enterprise logic and define enterprise logic using a business rules definitions tool.

[c24] The method of claim 12, further including notifying central file management hub of workflow events.

[c25] The method of claim 12, further including notifying central file management hub of workflow events, wherein said workflow events includes at least one of file transfer, file transformation and processing exceptions.

[c26] The method of claim 12, wherein said step of applying said transformation map to said file includes at least one of splitting a file into several files and segmenting a file into messages.